CHARGE NUMBER : 1801

PROJECT TITLE : Expanded Tobacco Development

PERIOD COVERED: November 1-30, 1985

PROJECT LEADER: G. Gellatly

I. CONVEYOR REORDERING

A. Objective

To minimize DIET filler breakage and filling power loss during reordering.

B. Status

DIET reordered in one minute in the pilot plant (24% longs) was compared with MC DIET (8% longs) of the same filling power at 100%, 30% in DBC bright and 15% (MF 03/86) in cigarette. The longer pilot plant DIET resulted in reduced loose ends in cigarettes of the same weight which confirms previous results. The firmness of cigarettes containing pilot plant product in 100% and 30% blends was, however, lower than the respective MC product blends. The 15% blended cigarettes showed no difference of cigarette firmness at the same weight but indicated an improvement of loose ends in the cigarettes containing the longer pilot plant product. Coal strength results are not yet available.

C. Plans

1. Complete the analysis of the single stage reordered product and issue a report on conveyor reordering.

2. Develop design data to support the installation of a production test facility at Cabarrus for conveyor reordering.

II. UNFOLDED STRIP

A. Objective

To evaluate processing and structural characteristics of unfolded strip for improved filler length and cigarette quality.

2000829649

Source: https://www.industrydocuments.ucsf.edu/docs/flfm0000

B. Status

Unfolded strip was produced for evaluation of the resulting filler in the BTM cigarette and in a foam bonded rod.

Cigarettes containing DIET from unfolded strip filler showed no improvement of loose ends or firmness compared to standard DIET. The longs content of feedstock for this test was 10% abs. greater than that of the control, yet no difference was observed in the longs content of these cigarettes. The reason for this phenomenon may be that DIET processing increases the stiffness and friability of the filler which reduces its survivability through cigarette making.

C. Plans

1. Evaluate unfolded strip filler in a Marlboro blend cigarette.

2. Evaluate unfolded burley strip filler in cigarettes.

3. Study the unfolding of cased and uncased burley strip.

4. Determine if casing unfolded burley strip is detrimental to unfolding.

/deb

2000829650

Source: https://www.industrydocuments.ucsf.edu/docs/flfm0000